

NPIC/D-145-63
5 November 1963

MEMORANDUM FOR THE RECORD

SUBJECT: U.S. Coast and Geodetic Survey Results with
Color Aerial Photography

1. Attached hereto is a pre-print of a USC&GS article,
"Color - A New Dimension in Photogrammetry" by J. T. Smith, Jr.

2. NPIC has independently investigated the USC&GS pro-
cedures and has noted the following:

a. There was wonderful cooperation between ANSCO
and USC&GS.

b. There was ample time to develop the complete
system through trial and error.

c. The missions are flown at a maximum altitude
of 23,000 feet under ideal weather conditions.

d. The targets are flown twice, first to get
exposure meter readings, and second to make the exposures.

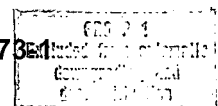
e. In flight the camera is operated by an exper-
ienced photographer, oftentimes Smith, himself.

f. Smith does his own processing with, of all things,
the Zeiss F.E. 120 processors; (these are the same gadgets
NPIC representatives used overseas in 1956).

g. Smith is able to process 400' per day under
normal conditions, however, should he foul up, he just
goes back and flies again another day.

h. The color half-tone printing in the article was
taken care of by ANSCO probably in a first class color
lithographic shop.

i. Smith uses Anscochrome taking film and makes his
prints on Printon paper; this is a direct positive-to-
position procedure. (We can do this at NPIC).



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3. We feel that NPIC possesses a capability equal to Smith's in the production of paper prints and transparencies. However, it must be remembered that NPIC has never had control of the entire system for collection as Smith has. Further, Smith has never had to face the problems NPIC has, such as bulk reproduction, speed of reporting, etc.

4. The foregoing details are appended to the pre-print for reference use by DD/S&T, DD/I-CGS, and Chairman, COMOR, for study and reference in future considerations of color aerial photography.



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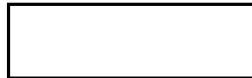
ARTHUR C. LUNDAHL

Director

National Photographic Interpretation Center

Attachment: a/s

Photogrammetric Engineering
Nov 1963 p1



Chief - Air Photogrammetry
Lab. Section
USC&GS
U.S. Dept. of Commerce

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